MICROIRRIGATION SYSTEM DATA SHEET

COOPERATOR LOCATION IDENTIFICATION NO. ENG. JOB CLASS 1. RESOURCE AREA DESIGN SOIL NAME	
	FIELD NO
1. RESOURCE AREA DESIGN SOIL NAME	
DESCRIPTION OF SOIL	
RESOURCE AREA, DESIGN AREA	
2. CROPS:	acres
b	
c	
d	acres
	TOTAL acres
SOURCE OF SUPPLY: (Reservoir, Well, Stream, etc.) a. RESERVOIR: STORAGE AVAILABLE FOR IRRIGATION	ac-ft
b. WELL: MEASURED CAPACITY	gpm
STATIC LEVEL	ft
MAXIMUM PUMPING LIFT	ft
c. STREAM: MEASURED FLOW (Season of Peak Use)	gpm
QUALITY OF WATER (Evidence of suitability)	
DISTANCE OF SUPPLY SOURCE TO FIELD	ft
ELEVATION DIFFERENCE SOURCE TO FIELD	ft

SKETCH	SHOW: a. b.	D OR ATTACH Source of W Major Eleva Differences Row Directi Trickle Sys	Water Ition Son and Spa	cing		f. Field (Gu	of Operation of Obstruction of Obstr	lons ees,	
 . 			٠			·			
								·	
	·		·	·			·	·	
	·		·	·					
	·	·	·				·	·	
.		•	•	•	•	•	•	•	

ft

5. LAYOUT SKETCH Scale 1" =

	FIELD NUMBER:		 	[SYSTE DESIG		
6.	SOIL INFORMATION:		1					
	a. SOIL (unit, name, or group)		1	l I			l I	
	b. MOISTURE HOLDING CAPACITY (in/ft)		-	: - ! !			· 	
	c. BASIC INTAKE RATE (in/hr)		- <u> </u> 	; - ; !			; 	
7.	CROP INFORMATION: a. KIND OF CROP		- · 	·_			· 	
	b. ACREAGE TO BE GROWN		_	-			 	
	c. MOIST. EXTRACTION ROOT DEPTH (ft)		_	-				
	d. USE RATE (in/day)		_	-			 	
8.	DESIGN PROCEDURE:		- '	'	·			
	a. APPLICATION RATE (in/day)				[
	b. GROSS WATER APPL./IRRIGATION.(in)		-	;- 			 	
	c. WATER APPLICATION EFFICIENCY (%).			 			 	
	d. NET WATER APPL./IRRIGATION. (in).		 	 			 	
	e. HOURS OF OPERATION PER DAY		i	; 			i	
	f. QUANTITY OF WATER REQUIRED (gpm).	 	- · 	; 			 	
(8	E) QUANTITY OF WATER REQUIRED TO MEET	PEAK US	SE =		·		·	
	(8f) $Q = 453 \text{ X}$ Acres x in Hours Operation/Day x	in/day u Eff	se ra	te cv (I	Decimal)	_		
				<i>-</i> `	,			
9.	SYSTEM SPECIFICATIONS: a. COMPONENT SPACINGS, LATERAL #	1	2	3	4	5	6	
	1. Emitter Spacing (ft)		!. 		_		!	
	2. Lateral Spacing (ft)		'.		-		¦	
	b. Emitter Type	'	'		_''		' '	
	Discharge gph at			Ps	si, or _			ft
	c. Max. Length Lateral (1) f	ft, Size	è		in No.	of En	nitters	
	(2) f	ft, Size	è		in No.	of En	nitters	
	d. Pressure Loss, in Lateral Line			_ psi	i, or _			ft
	e. Total No. of Laterals; No Total No. of Emitters;	o. Opera	ating	Simul	ltaneous	sly		
f.	Design Capacity gph							

10. MAIN LINE DESIGN:

TOTAL MAIN LINE LENGTH ft. KIND OF PIPE

STA. TO STA.	Q(GPM)	PIPE DIA. (IN.)	VELOCITY (FPS)	FRICTION HL (FT/100 FT)	TOTAL HL (FT)

⊥⊥.	PRESSURE REQUIREMENTS: (HEAD LOSS)	FEET	PSI
	PRESSURE LOSSES IN MAIN LINE		
	PRESSURE LOSSES IN LATERAL LINE		
	PRESSURE REQUIRED AT EMITTER INLET		\ <u></u>
	PRESSURE LOSS THROUGH FILTER		
	MISC. & FITTING LOSSES		\
	ELEVATION DIFFERENCE		\ <u></u>
	PUMP DISCHARGE PRESSURE		\ <u></u>
	PUMPING LIFT		
	TOTAL PRESSURE REQUIREMENTS		
			l

12. PUMP REQUIREMENTS: CAPACITY _	GPM AT	PSI, OR	FT OF HEAD
13. LIST OF MATERIALS:			
ITEM	SIZE	UNIT	QUANTITY
DESIGNED BY	-	DATE	
CHECKED BY			
APPROVED BY		DATE	
THIS PRACTICE MEETS SPECIFICATION	IS		
REMARKS/EXCEPTIONS			
SIGNED		DAME	